## **CLAIM AMENDMENTS**

This list of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims**

- (Currently Amended) A fuel cell system comprising:
  - a compressor for generating a compressed air flow;
- a fuel cell stack responsive to the compressed air flow and generating a cathode exhaust gas flow; and
- a two-position valve responsive to the exhaust gas flow, wherein the valve is open if the operating temperature of the system stack is below a predetermined temperature and the valve is closed if the operating temperature of the system stack rises above the predetermined temperature so that the exhaust gas back-pressure increases to provide humidity control within the fuel cell stack.
- 2. (Original) The system according to claim 1 further comprising a fixed restriction valve in parallel with the two-position valve, said fixed restriction valve also being responsive to the exhaust gas flow, said fixed restriction valve providing a predetermined cathode exhaust gas back-pressure when the two-position valve is closed.
- 3. (Currently Amended) The system according to claim 1 wherein the two-position valve includes <u>a</u> leak <u>paths path through the valve</u> to allow the exhaust gas to flow therethrough when the two-position valve is closed.
- 4. (Original) The system according to claim 1 further comprising a controller, said controller controlling the position of the two-position valve in response to the operating temperature of the system.
- 5. (Original) The system according to claim 4 wherein the controller prevents rapid switching of the two-position valve.

- 6. (Original) The system according to claim 1 wherein the two-position valve has a relatively slow transition time so as to prevent rapid changes between the open and closed position.
- 7. (Original) The system according to claim 6 wherein the two-position valve has about a 500 ms transition time.
- 8. (Original) The system according to claim 6 wherein the slow transition time is provided by one of a mechanical dash-pot or electrical control.
- 9. (Original) The system according to claim 1 wherein the fuel cell system is on a vehicle.
  - 10. (Original) A fuel cell system comprising:
    - a compressor for generating a compressed air flow;
- a fuel cell stack responsive to the compressed air flow and generating a cathode exhaust gas flow at a cathode output of the fuel cell stack;
- a two-position discrete valve responsive to the cathode exhaust gas flow, said two-position valve having a first position for providing a low back-pressure at the cathode output and a second position for providing a high back-pressure at the cathode output;
- a fixed restriction valve responsive to the cathode exhaust gas flow, said fixed restriction valve providing the high back-pressure when the two-position valve is in the second position; and
- a controller, said controller switching the two-position valve between the first position and the second position in response to the operating temperature of the fuel cell stack so that the fuel cell stack has the proper relative humidity.
- 11. (Original) The system according to claim 10 wherein the fixed restriction valve is a separate valve than the two-position valve and is in parallel with the two-position valve.

- 12. (Original) The system according to claim 10 wherein the fixed restriction valve is part of the two-position valve and provides leak paths through the two-position valve when the two-position is in the second position.
- 13. (Original) The system according to claim 10 wherein the controller prevents rapid switching of the two-position valve.
- 14. (Original) The system according to claim 10 wherein the two-position valve has a relatively slow transition time so as to prevent rapid switching of the valve.
- 15. (Original) The system according to claim 14 wherein the two-position has a 500 ms transition time.
- 16. (Original) The system according to claim 14 wherein the slow transition time is provided by one of a mechanical dash-pot or electrical control.
- 17. (Original) The system according to claim 10 wherein the fuel cell system is on a vehicle.

## 18. - 21. (Cancelled)

and

22. (New) A fuel cell system comprising:

a compressor for generating a compressed air flow;

a fuel cell stack responsive to the compressed air flow and providing a cathode exhaust gas flow;

a two-position valve through which the cathode exhaust gas flows;

a controller controlling the position of the two-position valve, said controller opening the valve to a fully opened position if the operating temperature of the fuel cell stack is below a predetermined temperature and closing the valve if the operating temperature of the stack rises above the predetermined temperature where

the closed position of the valve still allows some flow of the cathode exhaust gas through the valve.

- 23. (New) The system according to claim 22 wherein the controller prevents rapid switching of the two-position valve.
- 24. (New) The system according to claim22 wherein the two-position valve has a relatively slow transition time so as to prevent rapid changes between the open and closed position.
- 25. (New) The system according to claim 22 wherein the slow transition time is provided by one of a mechanical dash-pot or electrical control.